

## REMARKS

Claims 11-13 remain in the application for consideration of the Examiner with Claims 1-10 and 19-21 standing withdrawn from consideration.

Reconsideration and withdrawal of the outstanding rejections are respectfully requested in light of the above amendments and following remarks.

Claim 11 has been amended to clarify the invention.

Turning now to the art rejections, Claims 11-13 and 16-18 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Suzuki in view of Morris; Claims 14 and 15 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Suzuki and Morris in view of official notice.

It is respectfully submitted that Suzuki does not disclose or suggest the presently claimed invention including the digital signal processor utilizing a model reference control technique based on an expected response of an actuator to a feed forward control signal as defined in independent Claim 11.

Applicants agree with the Examiner that Suzuki does not use a model reference control technique based on control characteristics of the hard disk drive, consequently, Suzuki could not disclose based expected response of the actuator to a feed forward control signal.

It is respectfully submitted that Morris does not disclose or suggest the presently claimed invention including the digital signal processor utilizing a model reference control technique based on an expected response of the actuator in a feed forward control system.

With respect to Morris, the Examiner's attention is directed to Figure 12. Here element 265 which is disclosed as uncertainty 265 does not appear to be a feed forward control signal.

The Examiner alleges that it is notoriously well known in the art to integrate plural circuits into a single semiconductor chip to reduce manufacturing costs and to increase reliability.

A teaching from the prior art is respectfully requested.

Whether or not it is notoriously well known in the art to integrate plural circuits into a single semiconductor chip and whether or not it would have been obvious to modify Morris and Suzuki are of no matter since the resulting construction does not disclose or suggest the recited claimed subject matter.

It is respectfully submitted that Claims 11-18 define over the applied art.

Due to the above noted claimed subject matter and advantages, it is respectfully submitted that the present application is in condition for allowance, and notice to that effect is respectfully requested.

While it is believed that the instant response places the application in condition for allowance, should the Examiner have any further comments or suggestions, it is respectfully requested that the Examiner contact the undersigned in order to expeditiously resolve any outstanding issues.

To the extent necessary, Applicants petition for an Extension of Time under 37 CFR 1.136. Please charge any fees in connection with the filing of this paper, including extension of time fees, to the deposit account of Texas Instruments Incorporated, Account No. 20-0668.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "W. Daniel Swayze, Jr.", with a stylized flourish at the end.

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